

C-SMT REV. 2

CONDUIT AND CABLE SCHEDULE STAGE II AND III

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CONDUIT DESIGNATION	CIRCUIT No.	FROM	TO	SERVICE	CONDUIT NUMBER OF SETS	SIZE	CABLE (PER CDT.) OR BUSWAY NUMBER & SIZE	TYPE	REMARKS	CONDUIT DESIGNATION	CIRCUIT No.	FROM	TO	SERVICE	CONDUIT NUMBER OF SETS	SIZE	CABLE (PER CDT.) OR BUSWAY NUMBER & SIZE	TYPE	REMARKS
MEDIUM VOLTAGE 15KV CABLE (SEE DWG. #E-68, RISER DIAGRAM)										FDR'S - TRANSFER FROM EXIST. SWGR "R" BUS (SEE DWG. #E-69, ONE LINE DIAGRAM)									
PF-B1C	---	EXIST. 15KV SPLICE CABINET	BKR. #HV-B1	13.8KV	1	4"	3-350MCM	EPR	"Y" SPLICE TO EXISTING RISER CABLE	R-4	1-4	SWGR. BUS #1	ATS-75WR	480V	4	3"	3-350MCM	XHHW-2	
PF-B1C TEMP	---	BKR. #HV-B1	EXIST. TR-1	13.8KV	1	4"	3-350MCM	EPR	TEMPORARY FDR.		---	ATS-75WR	SWGR. BUS #EL	480V	4	3"	3-350MCM	XHHW-2	RUN FEEDERS BETWEEN EQUIPMENT
PF-B2C	---	EXIST. 15KV SPLICE CABINET	BKR. #HV-B2	13.8KV	1	4"	3-350MCM	EPR	"Y" SPLICE TO EXISTING RISER CABLE	R-5	2-4	SWGR. BUS #2	MCC-MW75R	480V	3	3 1/2"	3-500MCM	XHHW-2	
PF-B2C TEMP	---	BKR. #HV-B2	EXIST. TR-2	13.8KV	1	4"	3-350MCM	EPR	TEMPORARY FDR.	R-8I	2-6	SWGR. BUS #2	EXIST. P.B. #1	480V	1	2 1/2"	3-#4/0	XHHW-2	
PF-B3C	---	EXIST. 15KV SPLICE CABINET	BKR. #HV-B3	13.8KV	1	4"	3-350MCM	EPR	"Y" SPLICE TO EXISTING RISER CABLE	1-6	1-6	SWGR. BUS #1	PHL. DP-75W	480/277V	2	3 1/2"	4-500MCM	XHHW-2	REMOVE TEMP. FDR. R-7-TEMP INSTALLED IN STAGE I
PF-B3C TEMP	---	BKR. #HV-B3	EXIST. TR-3	13.8KV	1	4"	3-350MCM	EPR	TEMPORARY FDR.	3-3	3-3	SWGR. BUS #3	EXIST. P.B. #5	480V	2	3 1/2"	3-500MCM	XHHW-2	ELW - INSTALL C.T. WIRING TO METER
PF-B4C	---	EXIST. 15KV SPLICE CABINET	BKR. #HV-B4	13.8KV	1	4"	3-350MCM	EPR	"Y" SPLICE TO EXISTING RISER CABLE	R-16	4-5	SWGR. BUS #4	EXIST. P.B. #5	480V	2	3 1/2"	3-500MCM	XHHW-2	ERASCO - INSTALL C.T. WIRING TO METER
PF-B4C TEMP	---	BKR. #HV-B4	EXIST. TR-4	13.8KV	1	4"	3-350MCM	EPR	TEMPORARY FDR.	R-17	3-1	SWGR. BUS #3	EXIST. P.B. #5	480V	3	3 1/2"	3-500MCM	XHHW-2	ERASCO - INSTALL C.T. WIRING TO METER
FDR'S - TRANSFER FROM EXIST. SWGR "L" BUS (SEE DWG. #E-69, ONE LINE DIAGRAM)										FDR'S - TRANSFER FROM EXIST. SWGR BUS "EL" (SEE DWG. #E-69, ONE LINE DIAGRAM)									
L-1	3-5	SWGR. BUS #3	ATS-75WL	480V	5	3 1/2"	3-500MCM	XHHW-2		R-10	EL-1	SWGR. BUS #EL	EXIST. P.B. #1	480V	1	2 1/2"	3-250MCM	XHHW-2	
	---	ATS-75WL	EDP #EL-B76S	480V	5	3 1/2"	3-500MCM	XHHW-2	VIA P.B. #2, USING EXIST. 3 1/2" C. FROM P.B. #6 TO PNL.	R-11	EL-2	SWGR. BUS #EL	EXIST. P.B. #1	480V	1	3 1/2"	3-500MCM	XHHW-2	I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CON- STITUTING A PART OF CONTRACT NO. WTC-802.071 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.
L-2	3-4	SWGR. BUS #3	P.B. #9	480V	1	3 1/2"	3-500MCM	XHHW-2		R-12	EL-3	SWGR. BUS #EL	EXIST. P.B. #1	480V	1	3 1/2"	3-500MCM	XHHW-2	DATE 6/21/95 Samlan A. Aslam SPEC. WRITER
L-3-TEMP	4-3	SWGR. BUS #4	EXISTING TRANSF. #TR-L3	480V	2	3 1/2"	3-500MCM	XHHW-2	PROVIDE CABLE LUGS AT SWGR. BREAKER	R-13	EL-4	SWGR. BUS #EL	ELEV. DISTRIBUTION PNL. #EL-B76W	480V	2	3"	3-350MCM	XHHW-2	DATE 8/5/95 Robert K. Sweeney ENGINEER OF DESIGN
L-3	4-1	SWGR. BUS #4	TRANSF. #TR-L3	480V	2	3 1/2"	3-500MCM	XHHW-2	DEAN WITTE - INSTALL C.T. WIRING TO METER	EMERG. POWER FDR'S FROM ELEC. CLOSET "C" (SEE DWG. #E-69, ONE LINE DIAGRAM UNLESS OTHERWISE NOTED)									
L-3	---	CB-L3	EXIST. 1600A BUSWAY	208/120V	1	---	2000A BUSWAY	3# F.N. GND.		B-2	---	EXIST. POW. CONTR. EPC-75B	ATS-75WL	480V	2	3 1/2"	3-500MCM	XHHW-2	VIA P.B. #15
L-4a	4-2	SWGR. BUS #4	BUSWAY CAP	480/277V	1	---	2000A BUSWAY	3# F.N. GND.		B-3	---	EXIST. POW. CONTR. EPC-75B	EXIST. P.B. #1	480V	1	2"	3-#3/0	XHHW-2	
L-4b	3-2	SWGR. BUS #3	EXIST. 1600A BUSWAY	480/277V	1	---	2000A BUSWAY	3# F.N. GND.	DEAN WITTE - INSTALL C.T. WIRING TO METER	---	---	EXIST. P.B. #1	ATS-75WR	480V	1	2"	3-#3/0	XHHW-2	
L-7	4-4	SWGR. BUS #4	MCC-MW75L	480V	3	3 1/2"	3-500MCM	XHHW-2		---	---	PANEL #E-75B	P.B. "A"	208V	1	1 1/4"	2 #2	XHHW-2	SEE DWG. #E-95 ONE LINE DIAGRAM & PLAN
L-8I	4-6	SWGR. BUS #4	EXIST. FIRE PUMP CONTROL STATION	480V	2	3"	3-350MCM	XHHW-2		---	---	P.B. "A"	DISC. SW. NORM. & U.P.S.	208V	1	1 1/4"	2 #2	XHHW-2	
FDR'S - TRANSFER FROM EXIST. SWGR "R" BUS (SEE DWG. #E-69, ONE LINE DIAGRAM)										---	---	U.P.S.	PANEL CP-75W	120/240V	1	1 1/4"	3 #2	XHHW-2	SEE DWG. #E-103, EXTEND FDR'S. TO TEMP. UPS
R-1	2-1	SWGR. BUS #2	TRANSF. #TR-R1	480V	2	3 1/2"	3-500MCM	XHHW-2		---	---	CB-UPS-75B	PULL BOX	120/240V	1	1 1/4"	3 #2	XHHW-2	BY PASS POWER FOR SS-75W UPS SEE DWG. #E-95 & E-103.
R-1	---	CB-R1	EXIST. 1600A BUSWAY	208/120V	1	---	2000A BUSWAY	3# F.N. GND.		---	---	PULL BOX	UPS-SS-75W	120/240V	1	1 1/4"	3 #2	XHHW-2	
R-1-TEMP	4-3	SWGR. BUS #4	EXISTING TRANSF. #TR-R1	480V	2	3"	3-500MCM	XHHW-2	PROVIDE CABLE LUGS AT SWGR. BREAKER	---	---	PULL BOX	UPS-SS-75W	120/240V	1	1 1/4"	3 #2	XHHW-2	
R-2a	1-2	SWGR. BUS #1	BUSWAY CAP	480/277V	1	---	2000A BUSWAY	3# F.N. GND.		---	---	PULL BOX	UPS-SS-75W	120/240V	1	1 1/4"	3 #2	XHHW-2	
R-2b	2-2	SWGR. BUS #2	EXIST. 1600A BUSWAY	480/277V	1	---	2000A BUSWAY	3# F.N. GND.		---	---	PULL BOX	UPS-SS-75W	120/240V	1	1 1/4"	3 #2	XHHW-2	
R-3	2-7	SWGR. BUS #2	EXIST. P.B. #8	480V	1	3 1/2"	3-500MCM	XHHW-2		---	---	PULL BOX	UPS-SS-75W	120/240V	1	1 1/4"	3 #2	XHHW-2	
FDR'S - TRANSFER FROM EXIST. SWGR "R" BUS (SEE DWG. #E-69, ONE LINE DIAGRAM)										TEMPORARY 480/277V. BUSWAY (SEE DWG. #E-69, ONE LINE DIAGRAM)									
R-1	2-1	SWGR. BUS #2	TRANSF. #TR-R1	480V	2	3 1/2"	3-500MCM	XHHW-2		I.B.	1-2	SWGR. BUS #3	EXIST. COLLECTOR BUSWAY	480/277V	1	---	4000A BUSWAY	3# F.N. GND.	TEMPORARY BUSWAY

- ◇ - REMOVE EXIST. & INSTALL COPPER CABLE LUGS
 - ◇ - SPLICE TO EXIST. AL. CABLE
 - ◇ - CONNECT TO EXIST. AL. BUSWAY
- FOR EXIST. CDT. & WIRE SEE DWG. #E-111

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THE PORT AUTHORITY OF NY & NJ

Robert K. Sweeney
ENGINEERING PROGRAM MANAGER
WORLD TRADE CENTER
S. J. Sweeney
CHIEF ELECTRICAL ENGINEER

Engineering Department
Design Divisions

The World Trade Center
Electrical/HVAC
Upgrade Program

TOWER ONE AND TWO
LOW VOLTAGE
SUBSTATIONS
CONSTRUCTION AND
INSTALLATION

ELECTRICAL
SUBSTATION SS-75W
STAGE II AND III
CONDUIT AND CABLE
SCHEDULE

No. Date Revision Approved

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LEAHY/FISCHER
Designed by LEAHY A.C.
Drawn by Checked by

Date 5-1-95 Scale NONE

Contract Number Drawing Number
WTC 802.071 E-70